

Title (en)

Laminating adhesive composition having barrier properties for gases and vapors

Title (de)

Kaschierklebmassen mit Barriereigenschaften gegenüber Gasen und Dämpfen

Title (fr)

Compositions pour couches adhésives ayant des propriétés de barrière pour gaz et vapeurs

Publication

EP 1217052 B1 20051026 (DE)

Application

EP 01130724 A 20011221

Priority

- DE 10064573 A 20001222
- DE 10138423 A 20010806

Abstract (en)

[origin: EP1217052A2] In an adhesive coating (A) prepared from, or using, silanes (B) by at least partial hydrolysis or condensation, the new feature is the presence of inorganic, platelet-shaped modified filler(s) which are either: (i) inorganically condensable and/or organically polymerizable and/or ionically bindable into the condensate from (B) or (ii) already so incorporated. In an adhesive coating (A) prepared from, or using, silanes (B) by at least partial hydrolysis or condensation, the new feature is the presence of inorganic, platelet-shaped modified filler(s) which are either: (i) inorganically condensable and/or organically polymerizable and/or ionically bindable into the condensate from (B) or (ii) already so incorporated. (B) are of formulae (I)-(III). $XaRbSiR1>4-a-b$ (I) $[P]^{+>[XaRbSiR2>4-a-b]->}$ (II) $[XaRbSiR3>4-a-b]^{+>[Q]->}$ (III) X : hydrolyzable group; R : optionally substituted alkyl, alkenyl, aryl, alkaryl or aralkyl; $R1>C$ -bound organic residue containing a group that takes part in an organic polymerization reaction; $R2>$ negatively charged organic group; $R3>$ positively charged organic group; $P^{+>}$ (in)organic cation; $Q^{+>}$ (in)organic anion; a : 1-3; b : 0-2; at least for (II) and (III), $a + b : 3$ Independent claims are also included for the following: (1) Method for preparing (A). (2) Preparation of a coated composite system using (A); (3) Composites produced by method (2).

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IPC 8 full level

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CPC (source: EP)

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Cited by

US9439417B2; FR2932648A1; US2011165246A1; CN102083309A; WO2013178563A2; WO2010007284A3; US10961415B2; JP2011525524A

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